

### The Jacobson Friction Machinists' Vises.

The accompanying cuts represent vises offered by the Jacobson Machine Mfg. Company, Warren, Pa. In Fig. 1 is shown the universal friction swivel vise in an upright position, while Fig. 2 represents the same vise on its side. The vise is provided with a post, which is bolted to the bench, and the body of the vise is mounted upon this either in an upright position or on either

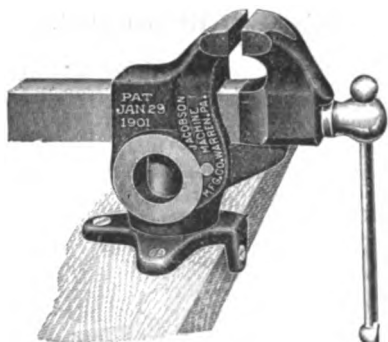


Fig. 1.—Universal Friction Swivel Vise.

side, and is free to turn around an entire circle about the post in an upright position or on either side. Inclosed within the body of the vise is a lock which is operated by the action of the screw, so that when the jaws begin to tighten upon any piece of work the lock is clamped onto the post and the vise is held firmly in whatever position it may be, when the screw is tightened. The vise may therefore be held at any point in the circle in any one of the three general positions. It is stated that the grip of the lock on the post is firm,



Fig. 2.—Friction Swivel Vise on Side.

and that it will hold solidly against chipping which is hard enough to knock the piece out of the jaws. The vise is especially adapted for tool room work. It is remarked, or any bench work that requires accuracy, or change of position, also that it may be advantageously used in connection with a drill press, where, by means of a special post, it may be used to drill work at any angle or, in fact, it may be used to drill work in practically any position desired. By being able to change the position instantly the work may at all times

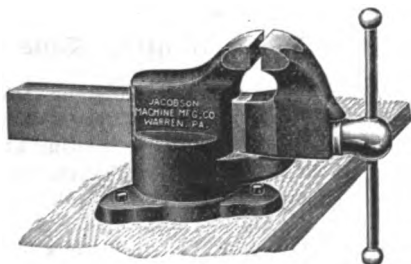


Fig. 3.—Friction Swivel and Bottom Vise.

be in the best position and in the best light to the advantage of the workman. The makers remark that the vise is carefully designed and that it is as heavy and as strong as any on the market. The vises are made with 3, 3½, 4, 4½ and 5¼ inch jaws. In the vise shown in Fig. 3 the special locking feature is maintained. It works only in an upright position, however, and is intended for all ordinary vise work. It is heavier in construction than the type shown in Fig. 1, and is designed especially for the larger sizes, being made with 4, 4½, 5¼ and 6 inch jaws.